

DNM 400a

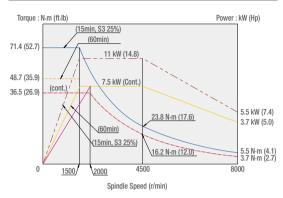






Main Spindle

Spindle power-torque diagram



Spindle motor power (cont/15min)

7.5 / 11 kW(10.1 / 14.8 Hp)

8000 r/min Max. Spindle speed

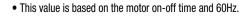
Auto Tool Changer

Fast tool change time on a cam-type tool changer helps improve productivity.



Tool change time (T-T-T)

DNM series 1.3 s





Tool storage capacity 20 tools

Rapid Traverse



The linear motion guide ways and the high-speed servo motors enable fast axis movements, which reduce machining time and non-cutting time, resulting in enhanced productivity.



Machining Productivity

m/min (ipm)

m/min (ipm)

m/min (ipm)

X-axis

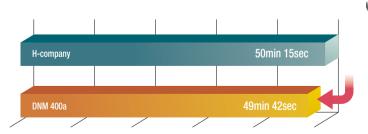
Y-axis

Z-axis

The basic concept of the machine design enables fast machining performance, which ensures an improvement in productivity.

DNM 400a

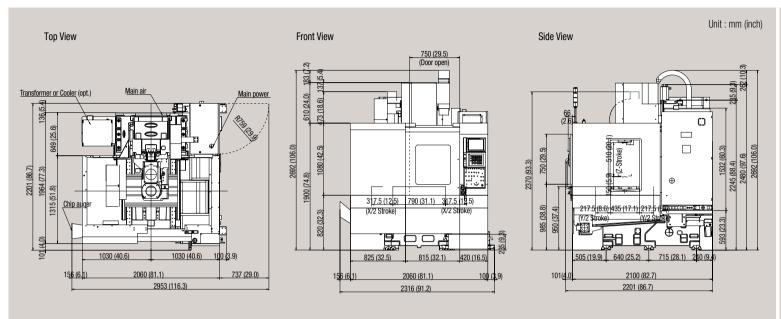
Comparsion of Cutting Time

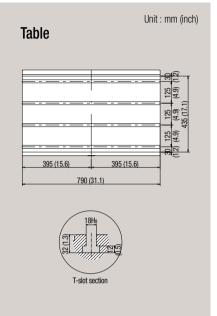


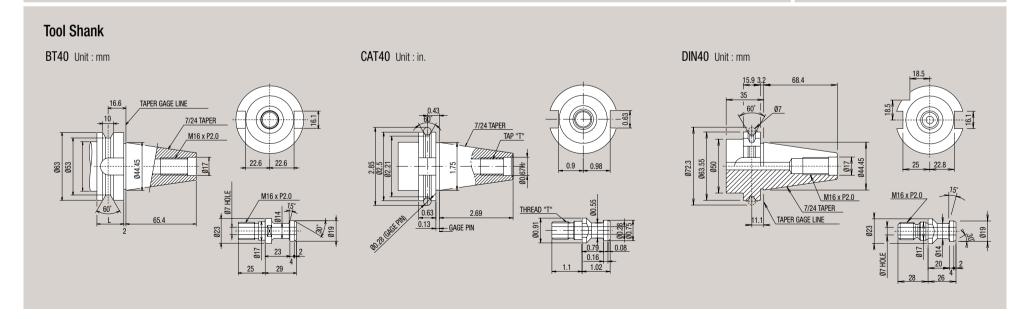
Material : Aluminum (Al606-T6)

Size: 561 x 210 x 40 mm (22.1 x 8.3 x 1.6 inch) No. of tools used: 18 tools

External Dimensions







Machine Specifications

| | Features | | DNM 400a |
|---------------------------|---|--------------|-----------------------------------|
| Travel | X-axis | mm (inch) | 635 (25.0) |
| | Y-axis | mm (inch) | 435 (17.1) |
| | Z-axis | mm (inch) | 510 (20.1) |
| | Distance from spdl nose to table top | mm (inch) | 150-660 (5.9-26.0) |
| | Distance from spdl center to column | mm (inch) | 512 (20.2) |
| Table | Table size | mm (inch) | 790 x 435 (31.1 x 17.1) |
| | Table loading capacity | kg (lb) | 400 (881.8) |
| | Table surface | | 4-125 x 18Hs |
| Spindle | Max. spindle speed | r/min | 8000 |
| | Spindle Taper | | ISO #40 7/24 Taper |
| | Max. Torque | N·m (ft·lb) | 71 (695.8) |
| Feedrate | Rapid traverse rate (X / Y / Z) | m/min (ipm) | 30 (1181.1) |
| | Cutting feedrate | mm/min (ipm) | 1-15000 (1-590.6) |
| Automatic tool changer | Type of tool shank | | BT / CAT / DIN 40 |
| | Tool storage capacity | ea | 20 |
| | Max. tool diameter | mm (inch) | Ø80 (3.2) |
| | Max. tool diameter without adjacent tools | mm (inch) | Ø125 (4.9) |
| | Max. tool length | mm (inch) | 300 (11.8) |
| | Max. tool weight | kg (lb) | 8 (17.6) |
| | Method of tool selection | | memory random |
| | Tool change time (tool-to-tool) | \$ | 1.3 |
| | Tool change time (chip-to-chip) | S | 3.7 |
| Motor | Spindle motor (15 min) | kW (Hp) | 11 (14.8) |
| | Feed motor (X / Y / Z) | kW (Hp) | 1.2 / 1.2 / 1.8 (1.6 / 1.6 / 2.4) |
| Power source | Electric power supply (Rated capacity) | kVA | 27.4 |
| | Compressed air supply | MPa (psi) | 0.54 (78.3) |
| Tank capacity | Coolant tank capacity | L (gal) | 200 (52.8) |
| | Lubrication tank capacity | L (gal) | 1.4 (0.4) |
| Machine size | Machine height | mm (inch) | 2692 (106.0) |
| | Machine dimension (L x W) | mm (inch) | 2201 x 2216 (86.7 x 87.2) |
| | Machine weight | kg (lb) | 4500 (9920.7) |
| NC system | | | DOOSAN Fanuc i series |

The specifications and information above-mentioned may be changed without prior notice. For more details, please contact Doosan.

DOOSAI

http://www.doosaninfracore.com/machinetools

Doosan Infracore Machine Tools

Doosan Infracore Yantai Co., LTD: 13 Building, 140 Tianlin Road, Xuhui District, Shanghai, China (200233) Tel: ++86-21-6440-3384 (808, 805) Fax: ++86-21-6440-3389

NC Unit Specifications

DOOSAN Fanuc i series



- Number of tool offsets: 400 ea
- Tool life management: 128 sets
- Tool offset memory C : Geometry / Wear and Length / Radius offset memory
- No. of Registered programs : 400 ea
- Part program storage: 1280 m
- Additional work coordinate system : G54.1 P1 - 48 (48 pairs)
- Al APC(Advanced Preview Control) : 20 block preview
- MDI / DISPLAY unit: 8.4" Color TFT LCD. keyboard for data input (small), soft-keys
- Embedded ethernet

Standard Feature

- Assembly & operation tools
- Auger chip conveyor
- Coolant tank & chip pan
- Door interlock for safety
- Enclosure splash guard (Top cover on)
- Flood coolant system
- Installation parts
- Operator call lamp (red, yellow, green)
- Portable MPG
- Work light

Optional Feature

- 4th axis preparation
- Automatic power off
- Automatic tool length measurement
- Hydraulic line for fixture
- Pneumatic line for fixture
- Rotary table
- Shower coolant
- Spindle head cooling system

i-ser EX 1301SP

- Test bar
- Through spindle coolant
- (Top cover std.)
- Top cover

